

**AMENDMENTS TO THE CLAIMS:**

Please amend claims 11-13, 16-18, 29-30, and 32-33, and please cancel claims 21-23, 25-26, and 35-40 without prejudice or disclaimer. This listing of claims below will replace all prior versions and listings of claims in the application.

1-10. (Canceled)

11. (Currently Amended) An immobilized *Euphorbiaceae*, *Poaceae*, or *Olacaceae* (S)-hydroxynitrile lyase enzyme ~~adsorbed~~ immobilized by adsorption on a porous inorganic carrier ~~comprising a porous inorganic material~~.

12. (Currently Amended) The immobilized enzyme according to claim 11, wherein said porous inorganic carrier ~~comprising a porous inorganic material~~ is selected from a sintered clay carrier, a silica carrier, an alumina carrier and a silica alumina carrier.

13. (Currently Amended) The immobilized enzyme according to claim 11 or 12, wherein said porous inorganic carrier ~~comprising a porous inorganic material~~ has a pore size of 10-80 nm.

14-15. (Canceled)

16. (Currently Amended) A method for producing an immobilized enzyme, comprising adsorbing an *Euphorbiaceae*, *Poaceae*, or *Olacaceae* (S)-hydroxynitrile lyase enzyme on a porous inorganic carrier ~~comprising a porous inorganic material~~.

17. (Currently Amended) The method for producing an immobilized enzyme according to claim 16, wherein said porous inorganic carrier ~~comprising a porous inorganic material~~ is selected from a sintered clay carrier, a silica carrier, an alumina carrier and a silica alumina carrier.

18. (Currently Amended) The method for producing an immobilized enzyme according to claim 16 or 17, wherein said porous inorganic carrier ~~comprising a porous inorganic material~~ has a pore size of 10-80 nm.

19-28. (Canceled)

29. (Currently Amended) The immobilized enzyme according to claim 11 or 12, wherein said porous inorganic carrier ~~comprising a porous inorganic material~~ has a pore size of 10-60 nm.

30. (Currently Amended) The immobilized enzyme according to claim 11 or 12, wherein the surface area of the porous inorganic ~~material~~ carrier is more than 20 m<sup>2</sup>/g.

31. (Previously Presented) The immobilized enzyme according to claim 11 or 12, wherein the pH at the time of enzyme adsorption is between 4.83 and 6.79.

32. (Currently Amended) The method for producing an immobilized enzyme according to claim 16 or 17, wherein said porous inorganic carrier ~~comprising a porous inorganic material~~ has a pore size of 10-60 nm.

33. (Currently Amended) The method for producing an immobilized enzyme according to claim 16 or 17, wherein the surface area of the porous inorganic ~~material~~ carrier is more than 20 m<sup>2</sup>/g.

34. (Previously Presented) The method for producing an immobilized enzyme according to claim 16 or 17, wherein the pH at the time of enzyme adsorption is between 4.83 and 6.79.

35-40. (Canceled)

FINNEGAN  
HENDERSON  
FARABOW  
GARRETT &  
DUNNER LLP

1300 I Street, NW  
Washington, DC 20005  
202.408.4000  
Fax 202.408.4400  
www.finnegan.com